



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,285	08/24/2001	Kenji Naito	P/1071-1446	2607
7590 01/13/2004				
Keating & Bennett LLP 10400 Eaton Place Suite 312 Fairfax, VA 22030			EXAMINER NGUYEN, TUYEN T	
			ART UNIT 2832	PAPER NUMBER

DATE MAILED: 01/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/939,285

Applicant(s)

NAITO ET AL.

Examiner

TUYEN T NGUYEN

Art Unit

2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) 8 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other:

## DETAILED ACTION

### *Election/Restrictions*

Claim 8 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse filed 10/30/2003.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2, 4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admitted prior art of figure 4 [hereafter AAPA].

AAPA discloses a flyback transformer comprising:

- a coil [12] including a secondary multi-layered winding [16] which is divided by a dividing diode [D0-D6], a diode [D0] being connected to a low potential side of the secondary multi-layered winding; and

- a capacitor [20] disposed in the vicinity of the dividing diode and connected to an input portion into which a signal for obtaining a dynamic focus output is provided.

wherein the dividing diode comprises a plurality of diodes each connected between windings of the secondary winding.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toba [US 4,266,269] in view of AAPA.

Toba discloses a flyback transformer comprising:

- a coil including a secondary multi-layered winding [21] which is divided by a dividing diode [26, 30, 34, 38]; and

- a capacitor [48] disposed in the vicinity of the dividing diode and connected to an input portion into which a signal for obtaining a dynamic focus output is provided.

wherein the dividing diode comprises a plurality of diodes each connected between windings of the secondary winding.

Toba discloses the instant claimed invention except for a diodes being connected to a low potential side of the secondary multi-layered winding.

AAPA discloses a diode [D0] being connected to a low potential side of the secondary multi-layered winding.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to connect a diode to a low potential side of the secondary multi-layered winding of Toba, as suggested by AAPA, for the purpose of providing uniform distributed capacitance.

Art Unit: 2832

Claims 1, 3, 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Mochida [JP 63-87715].

AAPA discloses the instant claimed invention except for the capacitor disposed at a position corresponding to a central portion of a winding length of the coil.

Mochida discloses a flyback transformer [figures 1 and 9] comprising:

- a multi-layered coil [3] which is divided by a dividing diode [4]; and
- a capacitor [7] disposed at a position corresponding to a central portion of a winding length.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the capacitor arrangement of Mochida in AAPA for the purpose of enhancing a high voltage capacitor.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Mochida et al. [JP 9-213552]; Tajima et al. [JP59-143313]; Akimoto et al. [US 5,466,9947]; Santelmann, Jr. [US 5,394,067].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 703-308-0821.

The examiner can normally be reached on M-F 8:30-6:30.

Application/Control Number: 09/939,285

Page 5

Art Unit: 2832

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 703-308-7619. The fax phone number for the organization where this application or proceeding is assigned is 703-305-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TTN TTN

*Taylor Nguyen*